

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/653,681B
Source: 1FW16
Date Processed by STIC: 7/14/05

ENTERED

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 10/653,681B

CRF Edit Date: 7/15/05

Edited by: 12

☐ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

☐ Corrected the SEQ ID NO. Sequence numbers edited were:

☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

5

☐ Deleted: ☐ invalid beginning/end-of-file text ; ☐ page numbers

☐ Inserted mandatory headings/numeric identifiers, specifically:

☐ Moved responses to same line as heading/numeric identifier, specifically:

☒ Other:

Sequence 5 - reduced blank spaces between groups
of 10 bases



IFW16

RAW SEQUENCE LISTING

DATE: 07/15/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

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3 <110> APPLICANT: DAI, KEN-SHOW
5 <120> TITLE OF INVENTION: HUMAN ARL-RELATED GENE VARIANTS ASSOCIATED WITH CANCER
7 <130> FILE REFERENCE: U014798-3
9 <140> CURRENT APPLICATION NUMBER: 10/653,681B
10 <141> CURRENT FILING DATE: 2003-09-02
12 <160> NUMBER OF SEQ ID NOS: 6
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1090
18 <212> TYPE: DNA
19 <213> ORGANISM: ARTIFICIAL SEQUENCE
21 <220> FEATURE:
22 <223> OTHER INFORMATION: VARIANT OF HUMAN ALDOSE REDUCTASE-LIKE GENE
25 <220> FEATURE:
26 <221> NAME/KEY: CDS
27 <222> LOCATION: (70)..(333)
29 <400> SEQUENCE: 1
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32 gcaccaacc atg gcc acg ttt gtg gag ctc agt acc aaa gcc aag atg ccc      111
33      Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro
34      1          5          10
36 att gtg ggc ctg ggc act tgg aag tct cct ctc ggc aaa gtg aaa gaa      159
37 Ile Val Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu
38 15          20          25          30
40 gca gtg aag gtg gcc att gat gca gga tat cgg cac att gac tgt gcc      207
41 Ala Val Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala
42          35          40          45
44 tat gtc tat cag aat gaa cat gaa gtg ggg gaa gcc atc caa gag aag      255
45 Tyr Val Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys
46          50          55          60
48 atc caa gag aag gct gtg aag cgg gag gac ctg ttc atc gtc agc aag      303
49 Ile Gln Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys
50          65          70          75
52 ttg tgg ccc act tcc aga tcg aga agc tct tgaacaaacc tggactgaaa      353
53 Leu Trp Pro Thr Ser Arg Ser Arg Ser Ser
54      80          85
56 tataaaccag tgactaacca ggttgagtgt caccataacc tcacgcagga gaaactgatc      413
58 cagtactgcc actccaaggg catcacggtt acggcctaca gccccctggg ctctccggat      473
60 agaccttggg ccaagccaga agacccttcc ctgctggagg atcccaagat taaggagatt      533
62 gctgcaaagc acaaaaaaac cgcagcccag gttctgatcc gtttccatat ccagaggaat      593
64 gtgattgtca tccccaagtc tgtgacacca gcacgcattg ttgagaacat tcaggtcttt      653
66 gactttaaat tgagtgatga ggagatggca accataactca gcttcaacag aaactggagg      713
68 gcctgtaacg tgttgcaatc ctctcatttg gaagactatc ctttcgatgc agaattattga      773

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DATE: 07/15/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

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70 ggttgaatct cctggtgaga ttatacagga gattctcttt cttegctgaa gtgtgactac      833
72 ctccactcat gtcccathtt agccaagctt atttaagatc acagtgaact tagtcctgtt      893
74 atagacgaga atcgaggtgc tgttttagac atttatttct gtatgttcaa ctaggatcag      953
76 aatatcacag aaaagcatgg ctgaataag gaaatgacaa tttttccac ttatctgac      1013
78 agaacaaatg tttattaagc atcagaaact ctgccaacac tgaggatgta aagatcaata      1073
80 aaaaaataa taatcat                                          1090
83 <210> SEQ ID NO: 2
84 <211> LENGTH: 88
85 <212> TYPE: PRT
86 <213> ORGANISM: ARTIFICIAL SEQUENCE
88 <220> FEATURE:
89 <223> OTHER INFORMATION: PEPTIDE ENCODED BY VARIANT OF HUMAN ALDOSE REDUCTASE-LIKE

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GENE

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91 <400> SEQUENCE: 2
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94 1          5          10          15
97 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
98          20          25          30
101 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
102          35          40          45
105 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
106          50          55          60
109 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
110 65          70          75          80
113 Pro Thr Ser Arg Ser Arg Ser Ser
114          85
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 1279
119 <212> TYPE: DNA
120 <213> ORGANISM: ARTIFICIAL SEQUENCE
122 <220> FEATURE:
123 <223> OTHER INFORMATION: VARIANT OF HUMAN ALDOSE REDUCTASE-LIKE GENE
126 <220> FEATURE:
127 <221> NAME/KEY: CDS
128 <222> LOCATION: (70)..(804)
130 <400> SEQUENCE: 3
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133 gcaccaacc atg gcc acg ttt gtg gag ctc agt acc aaa gcc aag atg ccc      111
134          Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro
135          1          5          10
137 att gtg ggc ctg ggc act tgg aag tct cct ctc ggc aaa gtg aaa gaa      159
138 Ile Val Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu
139 15          20          25          30
141 gca gtg aag gtg gcc att gat gca gga tat cgg cac att gac tgt gcc      207
142 Ala Val Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala
143          35          40          45
145 tat gtc tat cag aat gaa cat gaa gtg ggg gaa gcc atc caa gag aag      255
146 Tyr Val Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys
147          50          55          60
149 atc caa gag aag gct gtg aag cgg gag gac ctg ttc atc gtc agc aag      303

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RAW SEQUENCE LISTING

DATE: 07/15/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

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150 Ile Gln Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys
151          65          70          75
153 ttg tgg ccc act ttc ttt gag aga ccc ctt gtg agg aaa gcc ttt gag      351
154 Leu Trp Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu
155      80          85          90
157 aag acc ctc aag gac ctg aag ctg agc tat ctg gac gtc tat ctt att      399
158 Lys Thr Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile
159 95          100          105          110
161 cac tgg cca cag gga ttc aag tct ggg gat gac ctt ttc ccc aaa gat      447
162 His Trp Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp
163          115          120          125
165 gat aaa ggt aat gcc atc ggt gga aaa gca acg ttc ttg gat gcc tgg      495
166 Asp Lys Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp
167          130          135          140
169 gag gcc atg gag gag ctg gtg gat gag ggg ctg gtg aaa gcc ctt ggg      543
170 Glu Ala Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly
171          145          150          155
173 gtc tcc aat ttc agc cac ttc cag atc gag aag ctc ttg aac aaa cct      591
174 Val Ser Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro
175      160          165          170
177 gga ctg aaa tat aaa cca gtg act aac cag gtt gag tgt cac cca tac      639
178 Gly Leu Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr
179 175          180          185          190
181 ctc acg cag gag aaa ctg atc cag tac tgc cac tcc aag ggc atc acc      687
182 Leu Thr Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr
183          195          200          205
185 gtt acg gcc tac agc ccc ctg ggc tct ccg gat aga cct tgg gcc aag      735
186 Val Thr Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys
187          210          215          220
189 cca gaa gac cct tcc ctg ctg gag gat ccc aag att aag gag att gct      783
190 Pro Glu Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala
191          225          230          235
193 gca aag cac tcc cca agt ctg tgacaccagc acgcattggt gagaacattc      834
194 Ala Lys His Ser Pro Ser Leu
195      240          245
197 aggtctttga ctttaaattg agtgatgagg agatggcaac catactcagc ttcaacagaa      894
199 actggagggc ctgtaacgtg ttgcaatcct ctcatttgga agactatccc ttcgatgcag      954
201 aatattgagg ttgaatctcc tgggtgagatt atacaggaga ttctctttct tcgctgaagt      1014
203 gtgactacct ccactcatgt cccatttttag ccaagcttat ttaagatcac agtgaactta      1074
205 gtcctgttat agacgagaat cgaggtgctg ttttagacat ttatttctgt atgttcaact      1134
207 aggatcagaa tatcacagaa aagcatggct tgaataagga aatgacaatt ttttccactt      1194
209 atctgatcag aacaaatggt tattaagcat cagaaactct gccaacactg aggatgtaaa      1254
211 gatcaataaa aaaaataata atcat      1279
214 <210> SEQ ID NO: 4
215 <211> LENGTH: 245
216 <212> TYPE: PRT
217 <213> ORGANISM: ARTIFICIAL SEQUENCE
219 <220> FEATURE:
220 <223> OTHER INFORMATION: PEPTIDE ENCODED BY VARIANT OF HUMAN ALDOSE REDUCTASE-LIKE

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GENE

RAW SEQUENCE LISTING

DATE: 07/15/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

222 <400> SEQUENCE: 4

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224 Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro Ile Val
225 1          5          10          15
228 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
229          20          25          30
232 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
233          35          40          45
236 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
237          50          55          60
240 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
241 65          70          75          80
244 Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr
245          85          90          95
248 Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp
249          100         105         110
252 Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys
253          115         120         125
256 Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala
257          130         135         140
260 Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser
261 145         150         155         160
264 Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu
265          165         170         175
268 Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr
269          180         185         190
272 Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr
273          195         200         205
276 Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu
277          210         215         220
280 Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys
281 225         230         235         240
284 His Ser Pro Ser Leu
285          245

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287 <210> SEQ ID NO: 5

289 <211> LENGTH: 1337

291 <212> TYPE: DNA

293 <213> ORGANISM: HOMO SAPIEN

295 <220> FEATURE:

297 <223> OTHER INFORMATION: HUMAN ARL GENE

299 <400> SEQUENCE: 5

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301 caaaaacagc aacagaaagc aggacgtgag acttctacct gctcactcag aatcatttct 60
302 gcaccaacca tggccacgtt tgtggagctc agtaccaaag ccaagatgcc cattgtgggc 120
303 ctgggcactt ggaagtctcc tctcggcaaa gtgaaagaag cagtgaagggt ggccattgat 180
304 gcaggatata gccacattga ctgtgcctat gtctatcaga atgaacatga agtgggggaa 240
305 gccatccaag agaagatcca agagaaggct gtgaagcggg aggacctgtt catcgtcagc 300
306 aagttgtggc ccacttttct tgagagaccc cttgtgagga aagcctttga gaagaccctc 360
307 aaggacctga agctgagcta tctggacgtc tatcttattc actggccaca gggattcaag 420
308 tctgggggatg accttttccc caaagatgat aaaggtaatg ccatcggtgg aaaagcaacg 480
309 ttcttgggatg cctgggaggc catggaggag ctggtggatg aggggctggt gaaagccctt 540

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RAW SEQUENCE LISTING

DATE: 07/15/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:24:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

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310 ggggtctcca atttcagcca cttccagatc gagaagctct tgaacaaacc tggactgaaa      600
311 tataaaccag tgactaacca ggttgagtgt caccataacc tcacgcagga gaaactgata      660
312 cagtactgcc actccaaggg catcacggtt acggcctaca gcccctggg ctctccggat      720
313 agaccttggg ccaagccaga agacccttcc ctgctggagg atcccaagat taaggagatt      780
314 gctgcaaagc acaaaaaaac cgcagcccag gttctgatcc gtttccatat ccagaggaat      840
315 gtgattgtca tccccaagtc tgtgacacca gcacgcattg ttgagaacat tcaggctctt      900
316 gactttaaat tgagtgatga ggagatggca accataactca gcttcaacag aaactggagg      960
317 gcctgtaacg tggtgcaatc ctctcatttg gaagactatc ccttcgatgc agaattattga     1020
318 ggttgaaatc cctggtgaga ttatacagga gattctcttt cttcgtgtaa gtgtgactac     1080
319 ctccactcat gtcccatttt agccaagctt atttaagatc acagtgaact tagtcctggt     1140
320 atagacgaga atcgaggtgc tgttttagac atttatttct gtatgttcaa ctaggatcag     1200
321 aatatcacag aaaagcatgg cttgaataag gaaatgacaa ttttttccac ttatctgatc     1260
322 agaacaaatg tttattaagc atcagaaact ctgccaacac tgaggatgta aagatcaata     1320
323 aaaaaaataa taatcat                                     1337
325 <210> SEQ ID NO: 6
327 <211> LENGTH: 316
329 <212> TYPE: PRT
331 <213> ORGANISM: HOMO SAPIEN
333 <220> FEATURE:
335 <223> OTHER INFORMATION: AMINO ACID SEQUENCE ENCODED BY HUMAN ARL GENE
337 <400> SEQUENCE: 6
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342 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
343           20                25                30
345 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
346           35                40                45
348 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
349           50                55                60
351 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
352 65                70                75                80
354 Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr
355           85                90                95
357 Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp
358           100               105               110
360 Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys
361           115               120               125
363 Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala
364           130               135               140
366 Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser
367 145                150                155                160
369 Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu
370           165               170               175
372 Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr
373           180               185               190
375 Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr
376           195               200               205
378 Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu
379           210               215               220

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/653,681B

DATE: 07/15/2005

TIME: 12:24:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07152005\J653681B.raw

Raw Sequence Listing before editing,
for reference only



IFW16

RAW SEQUENCE LISTING

DATE: 07/14/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:29:14

Input Set : A:\U0147983 SEQUENCE LISTING.txt

Output Set: N:\CRF4\07142005\J653681B.raw

3 <110> APPLICANT: DAI, KEN-SHOW
 5 <120> TITLE OF INVENTION: HUMAN ARL-RELATED GENE VARIANTS ASSOCIATED WITH CANCER
 7 <130> FILE REFERENCE: U014798-3
 9 <140> CURRENT APPLICATION NUMBER: 10/653,681B
 10 <141> CURRENT FILING DATE: 2003-09-02
 12 <160> NUMBER OF SEQ ID NOS: 6
 14 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

287 <210> SEQ ID NO: 5
 289 <211> LENGTH: 1337
 291 <212> TYPE: DNA
 293 <213> ORGANISM: HOMO SAPIEN
 295 <220> FEATURE:
 297 <223> OTHER INFORMATION: HUMAN ARL GENE
 299 <400> SEQUENCE: 5

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 302
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 303
 ctgggcactt ggaagtctcc tctcgcaaa gtgaaagaag cagtgaaggt ggccattgat 180
 304
 gcaggatata ggcacattga ctgtgcctat gtctatcaga atgaacatga agtgggggaa 240
 305
 gccatccaag agaagatcca agagaaggct gtgaagcggg aggacctgtt catcgtcagc 300
 306
 aagttgtggc ccactttctt tgagagaccc cttgtgagga aagcctttga gaagaccctc 360
 307
 aaggacctga agctgagcta tctggacgtc tatcttattc actggccaca gggattcaag 420
 308
 tctggggatg accttttccc caaagatgat aaaggtaatg ccacgtgtgg aaaagcaacg 480
 309
 ttcttgatg cctgggaggc catggaggag ctggtggatg aggggctggt gaaagccctt 540
 310
 ggggtctcca atttcagcca cttccagatc gagaagctct tgaacaaacc tggactgaaa 600
 311
 tataaaccag tgactaacca ggttgagtgt caccataacc tcacgcagga gaaactgatc 660
 312
 cagtactgcc actccaaggg catcaccgtt acggcctaca gccccctggg ctctccgat 720
 313
 agacctggg ccaagccaga agacccttcc ctgctggagg atcccaagat taaggagatt 780

Does Not Comply
 Corrected Diskette Needed

← delete extra spaces - per Sequence Rules, only one space between groups of 10

314						
gctgcaaagc	acaaaaaaaaac	cgcagcccag	gttctgatcc	gtttccatat	ccagaggaat	840
315						
gtgattgtca	tccccaagtc	tgtgacacca	gcacgcattg	ttgagaacat	tcaggtcttt	900
316						
gactttaaat	tgagtgatga	ggagatggca	accatactca	gcttcaacag	aaactggagg	960
317						
gcctgtaacg	tgttgcaatc	ctctcatttg	gaagactatc	ccttcgatgc	agaatattga	1020
318						
ggttgaatct	cctggtgaga	ttatacagga	gattctcttt	cctcgctgaa	gtgtgactac	1080
319						
ctccactcat	gtcccatctt	agccaagctt	atttaagatc	acagtgaact	tagtctgtt	1140
320						
atagacgaga	atcgaggtgc	tgttttagac	atttatttct	gtatgttcaa	ctaggatcag	1200
321						
aatatcacag	aaaagcatgg	cttgaataag	gaaatgacaa	ttttttccac	ttatctgac	1260
322						
agaacaaatg	tttattaagc	atcagaaact	ctgccaacac	tgaggatgta	aagatcaata	1320
E--> 323						

aaaaaaataa taatcat

same error

see P.3

10/653,681B

3

aagatcaata 1320

taatcat

1380

1337

aaaaaaataa

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/653,681B

DATE: 07/14/2005
TIME: 12:29:15

Input Set : A:\U0147983 SEQUENCE LISTING.txt
Output Set: N:\CRF4\07142005\J653681B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:5; Line(s) 301,302,303,304,305,306,307,308,309,310,311,312,313,314,315

Seq#:5; Line(s) 316,317,318,319,320,321,322,323

VERIFICATION SUMMARY

DATE: 07/14/2005

PATENT APPLICATION: US/10/653,681B

TIME: 12:29:15

Input Set : A:\U0147983 SEQUENCE LISTING.txt

Output Set: N:\CRF4\07142005\J653681B.raw

L:323 M:254 E: No. of Bases conflict, LENGTH:Input:1380 Counted:1337 SEQ:5